

CLAIMS

1. A silver alloy for use in a reflective film, comprising silver as a main element and at least one element as a first dopant element higher than silver in melting point.
2. The silver alloy for use in a reflective film according to claim 1, wherein the first dopant element is at least any one of nickel and molybdenum.
- 10 3. The silver alloy for use in a reflective film according to claim 1, wherein the first dopant element is at least any one of copper, cobalt, titanium, scandium, yttrium, manganese, silicon, iron, zirconium, niobium, tantalum and tungsten.
- 15 4. The silver alloy for use in a reflective film according to any one of claims 1 to 3, comprising as a second dopant element at least one element selected from gallium, thulium and dysprosium.
5. The silver alloy for use in a reflective film according to any one of 20 claims 1 to 3, comprising as the second dopant element at least one element selected from platinum, palladium, magnesium, zinc, terbium, gadolinium and erbium.
6. The silver alloy for use in a reflective film according to any one of 25 claims 1 to 3, comprising as the second dopant element at least one element selected from gold, aluminum, neodymium, holmium, tin, bismuth and praseodymium.

7. The silver alloy for use in a reflective film according to any one of claims 1 to 3, comprising as the second dopant element at least one element selected from germanium, indium, samarium, ytterbium, strontium, boron, rhodium, iridium, ruthenium, chromium, lead, calcium, antimony, hafnium, lanthanum, cerium and europium.

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8. The silver alloy for use in a reflective film according to any one of claims 1 to 7, wherein a total of the concentration of the first dopant element and the concentration of the second dopant element are 0.01 to 5.0 atomic %.

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9. The silver alloy for use in a reflective film according to claim 8, wherein the total of the concentration of the first dopant element and the concentration of the second dopant element are 0.01 to 3.5 atomic %.

10. A sputtering target, comprising the silver alloy as defined in any one of

15 claims 1 to 9.